Comparison Scavenging power of Red algae species with Oak fruits jaft (*Quercus brantii* var. persica)

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Abstract
The aim of this study was measuring the free radical scavenging power and antioxidant properties of chloroform extract from two algae, *Acanthophora nayadiformis* and *Laurencia snyderiae* in comparison with hydroalcolic, chloroform and aquatic extracts from Oak fruits jaft (internal layer of oak fruit) (*Quercus brantii* var. persica). The extracts of three species were done by soaking method. Antioxidant activity were performed using Folin–Ciocalteau and DPPH. According to the results, aquatic extract of Oak fruits jaft showed the highest amount of total phenol (44.09±0.29 mg GAE /g extract) while the lowest amount of it (2.27±0.41 mg GAE/g extract) was belonged to *A. nayadiformis*. The highest antioxidant activity (215.025±1.562 mmol trolex/g extract) and inhibition percentage (90.15±0.65) according to the DPPH free radical test was measured in aquatic extract of Oak fruits jaft while the lowest amounts of the same indices were observed in *A. nayadiformis* (2.821±1.903 mmol Trolox/g extract and 5.8±3.99, respectively).There were significant differences in antioxidant activity (according to DPPH test) between chloroform extracts of studied red algae and all extract types (aquatic, chloroform and ethanolic) of Oak fruits jaft. These comparisons showed that antioxidant and anti-radicalic activities of studied marine red algae were very weak in comparison to Oak fruits jaft.

Keywords: Persian Gulf, radical Scavenging, Oak, Total phenol, DPPH test.